

Human CPNE1 / Copine I / CPN1 Protein

Catalog Number: 14283-HNCB



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

COPN1; CPN1; 1810028N16Rik; mKIAA4108

Protein Construction:

A DNA sequence encoding the human CPNE1(Q99829) (Met1-Ala537) was expressed and purified.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Gly

Molecular Mass:

The recombinant human CPNE1 consists of 539 amino acids and predicts a molecular mass of 59.2 KDa. It migrates as an approximately 69 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 7.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

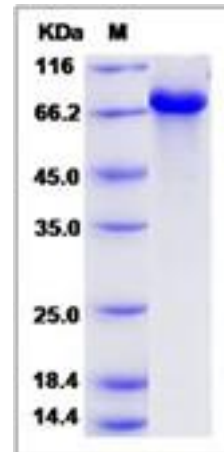
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Copine I, also known as CPN1, is a member of the copine family. Copine I is a calcium-dependent membrane-binding protein which has a wide tissue distribution. Calcium-dependent membrane-binding proteins may regulate molecular events at the interface of the cell membrane and cytoplasm. Copine I contains two N-terminal type II C2 domains and an integrin A domain-like sequence in the C-terminus, while it does not contain a predicted signal sequence or transmembrane domains. Copine I may function in membrane trafficking.

References

- 1.Cowland JB, *et al.* (2003) Tissue expression of copines and isolation of copines I and III from the cytosol of human neutrophils. *J Leukoc Biol.* 74(3):379-88.
- 2.Tomsig JL, *et al.* (2003) Identification of targets for calcium signaling through the copine family of proteins. Characterization of a coiled-coil copine-binding motif. *J Biol Chem.* 278 (12):10048-54.
- 3.Strausberg RL, *et al.* (2003) Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences. *Proc Natl Acad Sci.* 99(26):16899-903.

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